****** CONFIDENTIAL ******
******PRE-DECISIONAL DOCUMENT ******
****** SUMMARY SCORESHEET ******
****** FOR COMPUTING PROJECTED HRS SCORE ******

****** Do Not Cite or Quote ******

Site Name: Fostoria Industries

Region: 5

City, County, State: Fostoria, Seneca County, OH

Evaluator: David Brauner

EPA ID#: OHN000510314

Date: 8/11/09

Lat/Long:

T/R/S:

Congressional District:

This Scoresheet is for: SI

Scenario Name:

Description:

	S pathway	S^2 pathway
Ground Water Migration Pathway Score (S_{gw})	11.73	137.5929
Surface Water Migration Pathway Score (S_{sw})	0.06	0.0036
Soil Exposure Pathway Score (S_s)	0.11	0.0121
Air Migration Score (S_a)		
$S^2_{gw} + S^2_{sw} + S^2_s + S^2_a$		137.6086
$(S^2_{gw} + S^2_{sw} + S^2_s + S^2_a)/4$		34.40215
$/ (S^2_{gw} + S^2_{sw} + S^2_s + S^2_a)/4$		5.87

υ Pathways not assigned a score (explain):

TABLE 3-1 --GROUND WATER MIGRATION PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned	
Aquifer Evaluated:			
Likelihood of Release to an Aquifer:			
1. Observed Release	550	550	
2. Potential to Release:			
2a. Containment	10		
2b. Net Precipitation	10		
2c. Depth to Aquifer	5		
2d. Travel Time	35		
2e. Potential to Release [lines 2a(2b + 2c + 2d)]	500		
3. Likelihood of Release (higher of lines 1 and 2e)	550		550
Waste Characteristics:			
4. Toxicity/Mobility	(a)	10000	
5. Hazardous Waste Quantity	(a)	100	
6. Waste Characteristics	100		32
Targets:			
7. Nearest Well	(b)	50	
8. Population:			
8a. Level I Concentrations	(b)		
8b. Level II Concentrations	(b)		
8c. Potential Contamination	(b)	5	
8d. Population (lines 8a + 8b + 8c)	(b)	5	
9. Resources	5		
10. Wellhead Protection Area	20		
11. Targets (lines 7 + 8d + 9 + 10)	(b)		55
Ground Water Migration Score for an Aquifer:			
12. Aquifer Score [(lines 3 x 6 x 11)/82,5000][c]	100		11.7
Ground Water Migration Pathway Score:			
13. Pathway Score (S_{gw}), (highest value from line 12 for all aquifers evaluated)[c]	100		11.7

[a] Maximum value applies to waste characteristics category
[b] Maximum value not applicable
[c] Do not round to nearest integer

TABLE 4-25 –GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned	
Aquifer Evaluated:			
Drinking Water Threat			
Likelihood of Release to an Aquifer:			
1. Observed Release	550	550	
2. Potential to Release:			
2a. Containment	10		
2b. Net Precipitation	10		
2c. Depth to Aquifer	5		
2d. Travel Time	35		
2e. Potential to Release [lines 2a(2b + 2c + 2d)]	500		
3. Likelihood of Release (higher of lines 1 and 2e)	550		550
Waste Characteristics:			
4. Toxicity/Mobility	(a)	10000	
5. Hazardous Waste Quantity	(a)	10	
6. Waste Characteristics	100		18
Targets:			
7. Nearest Well	(b)	0	
8. Population:			
8a. Level I Concentrations	(b)		
8b. Level II Concentrations	(b)		
8c. Potential Contamination	(b)	0.5	
8d. Population (lines 8a + 8b + 8c)	(b)	0.5	
9. Resources	5		
10. Targets (lines 7 + 8d + 9)	(b)	0.5	
Drinking Water Threat Score:			
11. Drinking Water Threat Score ([lines 3 x 6 x 10]/82,500, subject to max of 100)	100		0.06
Human Food Chain Threat			
Likelihood of Release:			
12. Likelihood of Release (same value as line 3)	550		550
Waste Characteristics:			
13. Toxicity/Mobility/Persistence/Bioaccumulation	(a)		
14. Hazardous Waste Quantity	(a)	10	
15. Waste Characteristics	1000		0
Targets:			
16. Food Chain Individual	50		
17. Population			
17a. Level I Concentration	(b)		
17b. Level II Concentration	(b)		
17c. Potential Human Food Chain Contamination	(b)		
17d. Population (lines 17a + 17b + 17c)	(b)		
18. Targets (lines 16 + 17d)	(b)		
Human Food Chain Threat Score:			
19. Human Food Chain Threat Score [(lines 12x15x18)/82,500,suject to max of 100]	100		0
Environmental Threat			
Likelihood of Release:			
20. Likelihood of Release (same value as line 3)	550		550
Waste Characteristics:			
21. Ecosystem Toxicity/Persistence/Bioaccumulation	(a)		
22. Hazardous Waste Quantity	(a)	10	
23. Waste Characteristics	1000		0
Targets:			
24. Sensitive Environments			
24a. Level I Concentrations	(b)		
24b. Level II Concentrations	(b)		
24c. Potential Contamination	(b)		

24d. Sensitive Environments (lines 24a + 24b + 24c)	(b)	
25. Targets (value from line 24d)	(b)	
Environmental Threat Score:		
26. Environmental Threat Score [(lines 20:c23x25)/82,500 subject to a max of 60]	60	0
Ground Water to Surface Water Migration Component Score for a Watershed		
27. Watershed Score[c] (lines 11 + 19 + 28, subject to a max of 100)	100	0.06
28. Component Score (S_{gs})[c] (highest score from line 27 for all watersheds evaluated, subject to a max of 100)	100	0.06

[a] Maximum value applies to waste characteristics category
[b] Maximum value not applicable
[c] Do not round to nearest integer

TABLE 5-1 --SOIL EXPOSURE PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned	
Likelihood of Exposure:			
1. Likelihood of Exposure	550		550
Waste Characteristics:			
2. Toxicity	(a)	10000	
3. Hazardous Waste Quantity	(a)		
4. Waste Characteristics	100		0
Targets:			
5. Resident Individual	50	0	
6. Resident Population:			
6a. Level I Concentrations	(b)		
6b. Level II Concentrations	(b)		
6c. Population (lines 6a + 6b)	(b)		
7. Workers	15	10	
8. Resources	5		
9. Terrestrial Sensitive Environments	(c)		
10. Targets (lines 5 + 6c + 7 + 8 + 9)	(b)		10
Resident Population Threat Score			
11. Resident Population Threat Score (lines 1 x 4 x 10)	(b)		0
Nearby Population Threat			
Likelihood of Exposure:			
12. Attractiveness/Accessibility	100	10	
13. Area of Contamination	100	5	
14. Likelihood of Exposure	500		5
Waste Characteristics:			
15. Toxicity	(a)	10000	
16. Hazardous Waste Quantity	(a)	100	
17. Waste Characteristics	100		32
Targets:			
18. Nearby Individual	1	1	
19. Population Within 1 Mile	(b)	57	
20. Targets (lines 18 + 19)	(b)		58
Nearby Population Threat Score			
21. Nearby Population Threat (lines 14 x 17 x 20)	(b)		9280
Soil Exposure Pathway Score:			
22. Pathway Score[d] (S_s), [lines (11+21)/82,500, subject to max of 100]	100		0.11

[a] Maximum value applies to waste characteristics category
[b] Maximum value not applicable
[c] No specific maximum value applies to factor. However, pathway score based solely on terrestrial sensitive environments is limited to a maximum of 60
[d] Do not round to nearest integer